

## ABSTRACT

In a mobile phone as an information output device, when a mail application is executed to open an in-box (S201), a mail file in a mail retention region is read (S203).

5 If there exists an unprocessed mail, pre-read processing for creating a thumbnail of an attachment file prior to a mail opening operation from the user is executed for a mail in a prescribed range before and after the mail presently pointed to and selected by the cursor (S211). The thumbnail created in advance is retained in a thumbnail retention region. Then, when a mail opening operation is performed by the user (S213), the thumbnail created beforehand for the attachment file of the mail is displayed (S215).

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